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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/786,638	02/25/2004	Joel M. Maguire	GP-303365 3106	
7590 02/10/2006		EXAMINER		
LESLIE C. HODGES General Motors Corporation Mail Code 482-C23-B21 P.O. Box 300 Detroit, MI 48265-3000			HO, HA DINH	
			ART UNIT	PAPER NUMBER
				TATER NOMBER
			3681	
			DATE MAILED: 02/10/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	10/786,638	MAGUIRE, JOEL M.			
Office Action Summary	Examiner	Art Unit			
	Ha D. Ho	3681			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
 Responsive to communication(s) filed on 30 November 2005. This action is FINAL. Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. 					
Disposition of Claims					
4) ☐ Claim(s) 1-9 is/are pending in the application. 4a) Of the above claim(s) 8 is/are withdrawn fro 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-7 and 9 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or					
Application Papers					
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomplicated any accomplicated may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine	epted or b) objected to by the I drawing(s) be held in abeyance. See ion is required if the drawing(s) is ob	e 37 CFR 1.85(a). lected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s)					
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:				

DETAILED ACTION

1. This is the first Office Action on the merits of Application No. 10/786,638 filed on 02/25/04. Claims 1-9 are currently pending.

Election/Restrictions

- 2. Applicant's election without traverse of the invention of group I, claims 1-7 and 9, in the reply filed on 11/30/05 is acknowledged.
- 3. Claim 8 is withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention, there being no allowable generic or linking claim. Election was made **without** traverse in the reply filed on 11/30/05.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 5. Claims 1-5 and 7 are rejected under 35 U.S.C. 102(b) as being anticipated by Hunnicutt et al. (US 6,494,804).

Regarding claim 1, Hunnicutt et al shows a transmission comprising: a plurality of fluid passages (valve 825 has a plurality of passages, i.e., 850, 852, 848) configured to transmit fluid through the transmission for operating the transmission; and a miniature electric motor 867

operatively connected to a moveable blocker 836 positioned in one of said passages for actuating movement of the blocker between an open position (col. 5, line 67) in which fluid is allowed to flow through the passage, and a closed position (col. 6, line 60) in which the passage is blocked.

Regarding claim 2, wherein the blocker is operatively positioned between an oil chamber (oil chamber to operate the clutch) and an oil sump (oil reservoir) to control the amount of fluid flowing from the oil chamber to the oil sump.

Regarding claim 3, wherein said miniature motor is operatively connected to a transmission controller 804.

Regarding claim 4, wherein the blocker is operatively positioned between a valve body channel (valve body 842) and a clutch (see abstract) for controlling the amount of fluid flowing to the clutch.

Regarding claim 5, wherein the miniature motor is positioned in said one of the passages and bathed in the fluid (note that actuator 867 is positioned in the valve body 842).

Regarding claim 7, wherein the miniature motor is characterized by the absence of an armature and windings.

Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Art Unit: 3681

7. Claims 6 and 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hunnicutt et al. (US 6,494,804).

Page 4

Hunnicutt et al disclose a microvalve that includes the actuator 867 (miniature motor). Hunnicutt et al do not specify the dimensions of the actuator 867. It would have been an obvious matter of design choice to make the actuator 867 (miniature motor) of Hunnicutt et al to have a width of 5mm and the length of 10mm, since such a modification would have involved a mere change in the size of a component. A change in size is generally recognized as being within the level of ordinary skill in the art. In re Rose, 105 USPQ 237 (CCPA 1955).

Cited Prior Art

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure: Dore et al'462 show a motor controlling a valve. Talbot et al'998 show a microvalve controlled by an electric current.

Communication

Submission of your response by facsimile transmission is encouraged. The fax phone 9. numbers for the organization where this application or proceeding is assigned are (571) 273-8300. Recognizing the fact that reducing cycle time in the processing and examination of patent applications will effectively increase a patent's term, it is to your benefit to submit responses by facsimile transmission whenever permissible. Such submission will place the response directly in our examining group's hands and will eliminate Post Office processing and delivery time as well as the PTO's mail room processing and delivery time. For a complete list of correspondence not permitted by facsimile transmission, see M.P.E.P. 502.01. In general, most responses and/or amendments not requiring a fee, as well as those requiring a fee but charging such fee to a deposit account, can be submitted by facsimile transmission. Responses requiring a fee which applicant is paying by check should not be submitting by facsimile transmission separately from the check. Responses submitted by facsimile transmission should include a Certificate of Transmission (M.P.E.P., 512). The following is an example of the format the certification might take:

Art Unit: 3681

I hereby certify that this correspondence is being facsin	tile transmitted to
the Patent and Trademark Office on	
(Date)	
Typed or printed name of person signing this certificate	:
(Signature)	

If your response is submitted by facsimile transmission, you are hereby reminded that the original should be retained as evidence of authenticity (37 CFR 1.4 and M.P.E.P.. 502.02). Please do not separately mail the original or another copy unless required by the Patent and Trademark Office. Submission of the original response or a follow-up copy of the response after your response has been transmitted by facsimile will only cause further unnecessary delays in the processing of your application; duplicate responses where fees are charged to a deposit account may result in those fees being charged twice.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ha D. Ho whose telephone number is **571-272-7091**. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Charles Marmor can be reached on **571-272-7095**.

10. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

HDH (571) 272-7091 February 5, 2006

PRIMARY EXAMINER

Art Unit 3681